



# Open Access to Science Content: A View from the “Hole”

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NETSL Annual Conference  
College of the Holy Cross  
6 April 2006*



# A view from the “Hole”

## *Background*

- *Woods Hole science and the MBLWHOI Library*

*Pilot project to build an institutional repository (IR)*

*Wood Hole Open Access Server (WHOAS):*

- *DSpace “out of the box”*
- *Metadata*
- *Digital Object Identifier*

*Content growth and recruitment*



# 41°31.2'N, 70°40.0'W









# Woods Hole science

*Marine Biological Laboratory (1888): an international center for research, education, and training in biology, biomedicine, and ecology.*

*National Marine Fisheries Service/Northeast Fisheries Science Center (1871): conducts research in support of commercial fisheries in U.S. waters off the northeastern United States.*

*Sea Education Association (1975): college students study on shore and then go to sea in a 12-week, deep-water research and education program.*



# Woods Hole science

*U.S. Geological Survey (1962): geological and geophysical research and mapping investigations of the submerged continental margins of the United States and worldwide.*

*Woods Hole Oceanographic Institution (1930): dedicated to research and higher education at the frontiers of ocean science.*

*Woods Hole Research Center (1975): address the great issues of environment through scientific research and education and through applications of science in public affairs.*



SEA  
USGS  
WHRC  
WHOI

MBL

WHOI

NMFS



# MBLWHOI Library

*Joint library serving the Woods Hole science institutions.*

*Staffed by MBL and WHOI library employees.*

*Physical service points:*

- *Main ~ Lillie Laboratory (MBL)*
- *Data Library & Archives ~ McLean Laboratory (WHOI, Quissett campus)*
- *Library Service Center @ 25 Falmouth Technology Park (compact shelving)*





# MBLWHOI Library

*Virtual service points on every computer in the IP range (128.128. ... )*

- *Databases (98+)*
  - *i.e., ASFA, GeoRef, Science Direct, Web of Science*
- *E-journals (1300+)*
- *Desktop (PDF) delivery for locally held print articles*
- *Boston Library Consortium (BLC) Virtual Catalog*
- *ILLiad*



# September 2002

we're going to build an e-print server ....

*Cathy Norton, director MBLWHOI Library*

... a what?

*Ann Devenish*



# Questions → Pilot Project

- *Can we do this?*
- *What don't we know?*
- *What can we learn?*

*Project team: Chris Dematos, Ann Devenish, Pam Fournier, Marisa Hudspeth, Robin Hurst, Colleen Hurter, Ellen Levy, Cathy Norton, Lisa Raymond, Maggie Rioux, Amy Stout, Eleanor Uhlinger.*





# Pilot Project

## December 2003-July 2004

*Identify an appropriate software platform to host an IR.*

*Identify an appropriate metadata scheme to describe the digital objects within an IR.*

*Determine appropriate format(s) for delivery of the digital objects to end users.*

*Design an appropriate workflow for acquisition and intake of the digital objects.*



# Subject of the project

*WHOI Technical Reports (“blue covers”):*

*Manageable number ~ 35 published 2001-2003.*

*Portions of which existed digitally.*

*Ease of access ~ produced and held locally.*

*Author buy-in not required; WHOI “owned” items.*



# Software platform

*DSpace:*

*Designed to handle “all manner of digital formats.”*

*Focused on long-term preservation, using the CNRI  
Handle System.*

*Full administrative capabilities; policy decisions can  
be made at the departmental (institutional) level.*

*Supports qualified Dublin Core Metadata.*

*OAI PMH.*





# Metadata scheme

*Dublin Core:*

*Simple, interoperable and open standard, expressible in MARC, HTML or XML.*

*Easy to understand, flexible and widely used.*

*Sample records for technical reports and data sets indicated it provided all the access points needed for resource description.*



# Format delivery

## *PDF:*

*Specifications have been formally published, making it suitable for a long-term preservation format.*

*Renders each page exactly as the creator intended.*

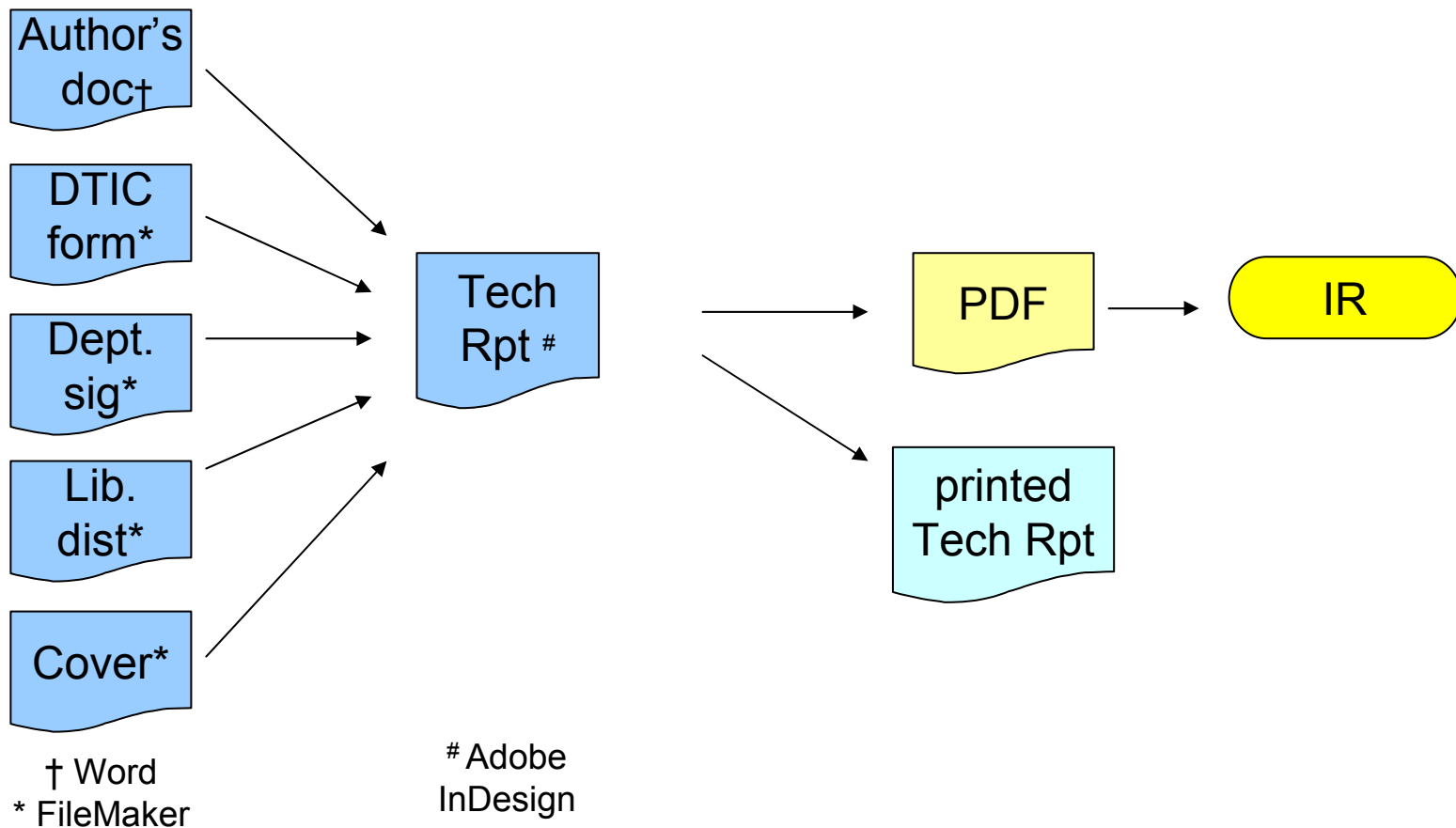
*Viewers are free and easily downloadable.*

*Dublin Core Metadata can be programmatically embedded inside of the PDF file.*

*Supports electronic signatures, watermarks, password protection, and encryption as security features to protect a record against unauthorized alteration or viewing.*



# Object acquisition







# Lessons learned

*Involve library and IT colleagues, early and often*

*Be flexible*

*Be patient*

*Be persistent*

*Be prepared to un-do and re-do*

*Expect the unexpected*

*Know your limitations*

*Look forward*



# Pilot project → WHOAS

*Institutional repository of Woods Hole scientific content.*

*Hosted by the MBLWHOI Library.*

*<https://darchive.mblwhoilibrary.org/index.jsp>*

*Content is web accessible, easily searched, and open access.*

*Content metadata is routinely harvested by OAI PMH search engines, such as OAIster.*



# WHOAS: a collaborative effort

## *Institutional (Community) responsibilities*

- *Determine content guidelines.*
  - *see the suggested guidelines*  
[http://www.mblwhoilibrary.org/services/policies/whoas\\_guidelines.html](http://www.mblwhoilibrary.org/services/policies/whoas_guidelines.html)

## *Author responsibilities*

- *Retain/extend appropriate Author rights.*
  - *see the Amendment to Publication Agreement*  
<http://www.mblwhoilibrary.org/services/copyright/pdf/amendment.pdf>
- *Contribute content.*



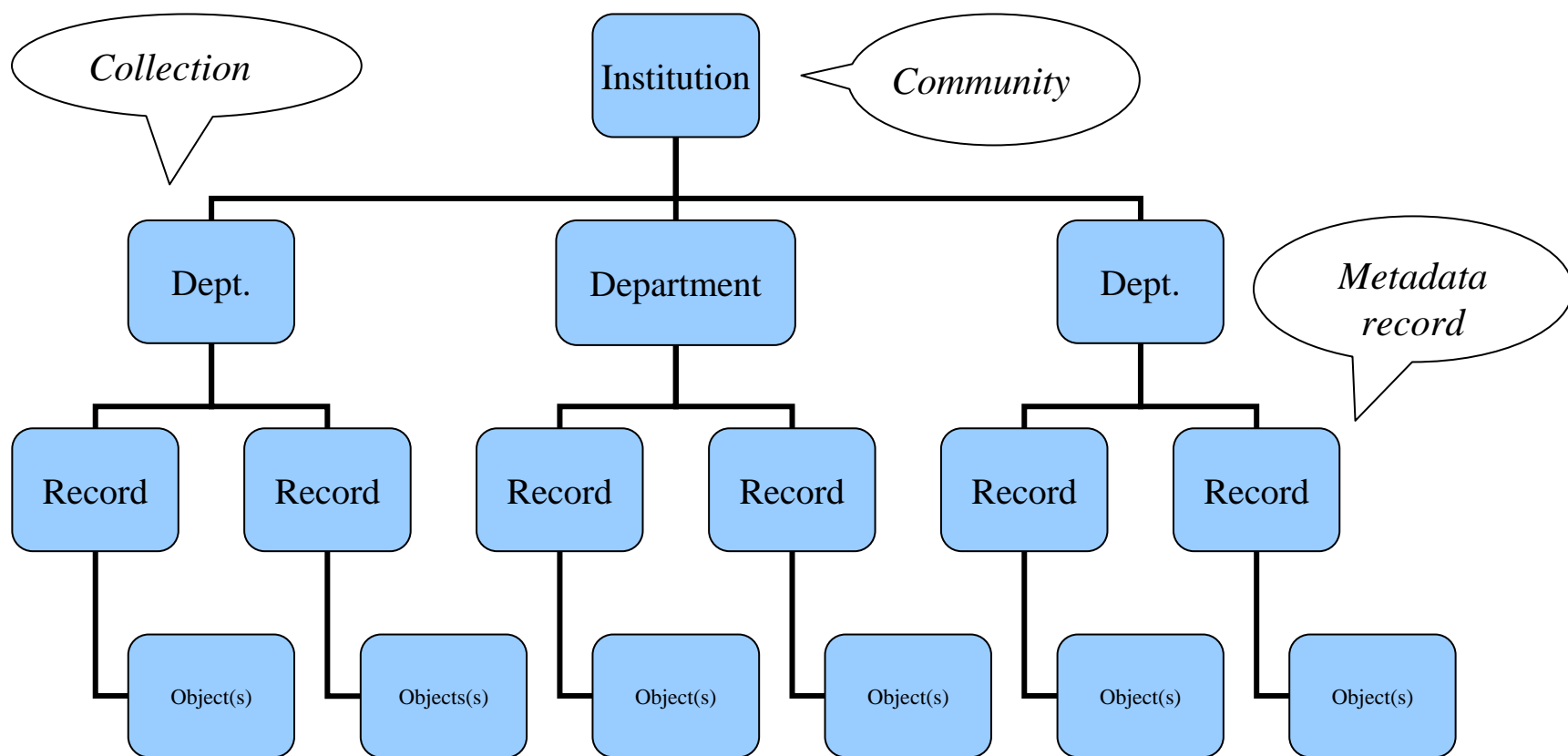
# WHOAS: a collaborative effort

## *MBLWHOI Library responsibilities*

- *Host IR service, including system administration, and provide user training and support.*
- *Provide open access to content.*
- *Retain and maintain content submitted in perpetuity.*
- *Migrate content if format is in danger of obsolescence.*
- *Report generation.*



# WHOAS organization





# WHOAS: anonymous visitor





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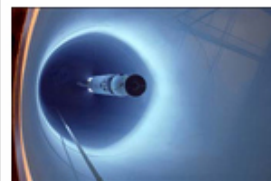
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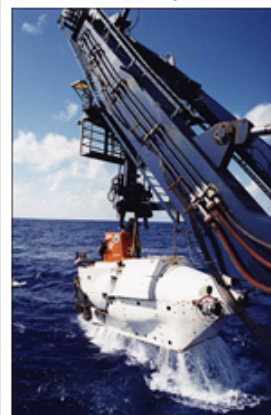
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Search: All of WHOAS

for Tao-Cheng

Results 1-1 of 1.

**Item hits:**

Date of Issue	Title	Authors
4-Oct-2004	<a href="#">Inhibition of phosphatase activity facilitates the formation and maintenance of NMDA-induced calcium/calmodulin-dependent protein kinase ii clusters in hippocampal neurons</a>	<i>Tao-Cheng, J.-H. ; Vinade, L. ; Winters, C. A. ; Reese, T. S. ; Dosemeci, A.</i>

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**Please use this identifier to cite or link to this item:****<http://hdl.handle.net/1912/607>**

**Title:** Inhibition of phosphatase activity facilitates the formation and maintenance of NMDA-induced calcium/calmodulin-dependent protein kinase ii clusters in hippocampal neurons

**Authors:** Tao-Cheng, J.-H.  
Vinade, L.  
Winters, C. A.  
Reese, T. S.  
Dosemeci, A.

**Keywords:** Immunogold electron microscopy  
Calyculin A  
Okadaic acid  
Calcium/calmodulin-dependent protein kinase II  
Autophosphorylation

**Issue Date:** 4-Oct-2004

**Abstract:** The majority of hippocampal neurons in dissociated cultures and in intact brain exhibit clustering of CaMKII into spherical structures with an average diameter of 110 nm when subjected to conditions that mimic ischemia and excitotoxicity (Tao-Cheng et al., 2001). Because clustering of CaMKII would reduce its effective concentration within the neuron, it may represent a cellular strategy to prevent

spread of CaMKII clusters. Here we employ a relatively mild excitatory stimulus to promote sub-maximal clustering for the purpose of studying the conditions for the formation and disappearance of CaMKII clusters. Treatment with 30  $\mu$ M NMDA for 2 min produced CaMKII clustering in ~15 percent of dissociated hippocampal neurons in culture, as observed by pre-embedding immunogold electron microscopy. These CaMKII clusters could be labeled with antibodies specific to the phospho form (Thr286) of CaMKII, suggesting that at least some of the CaMKII ...

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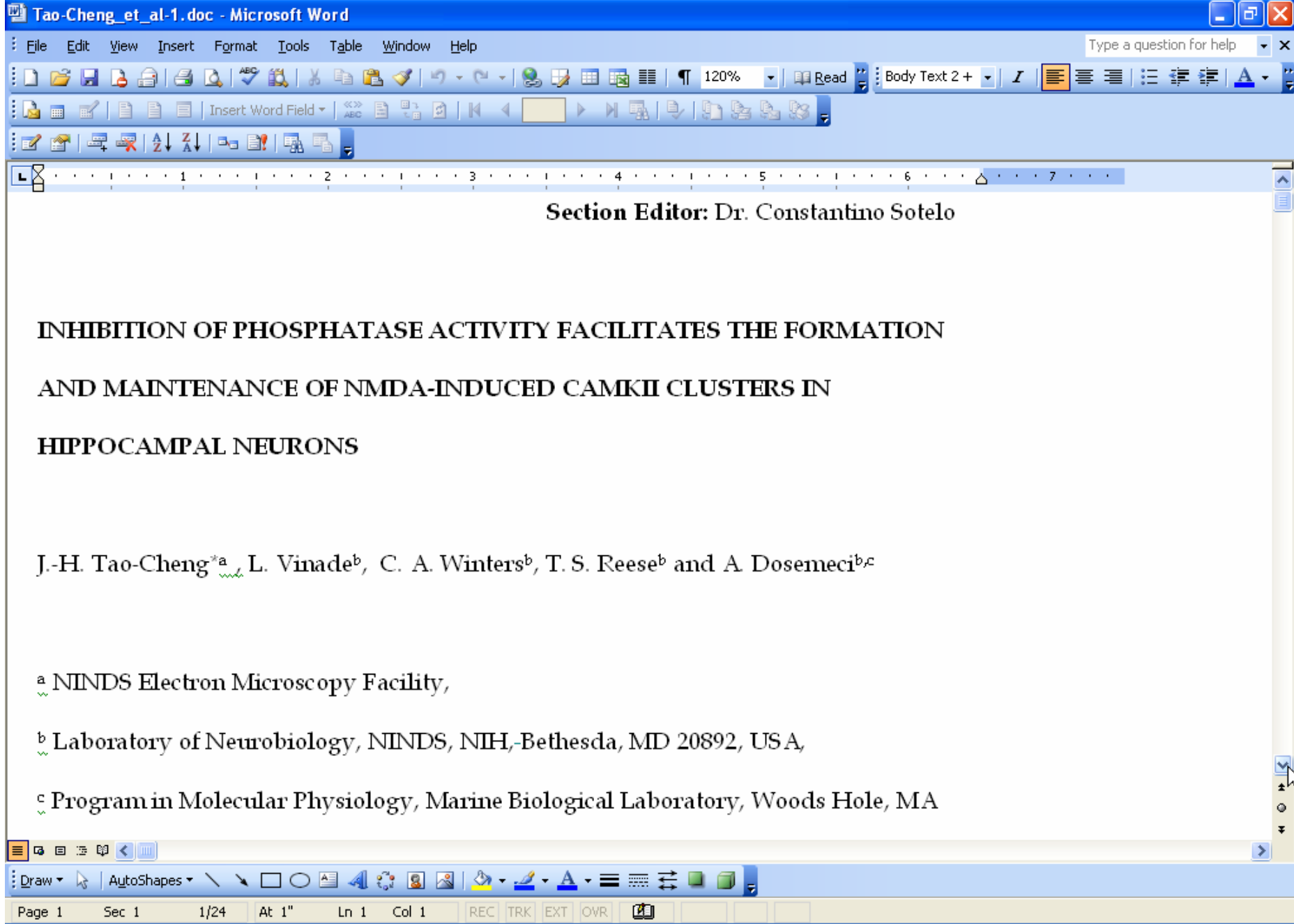
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Tao-Cheng__Fig_2.jpg	Figure 2: CaMKII clustering is maintained in the presence of phosphatase inhibitors	506Kb	JPEG	<a href="#">View/Open</a>
Tao-Cheng__Fig_1.jpg	Figure 1: CaMKII clusters are phosphorylated	227Kb	JPEG	<a href="#">View/Open</a>
Tao-Cheng_et_al.doc	Author's final draft	76Kb	Microsoft Word	<a href="#">View/Open</a>

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# DSpace: content intake process

*Community defines appropriate content and community members provide the digital objects.*

*Descriptive metadata created using the intake form via the user interface (i.e., author, title, keywords, abstract.)*

*Library staff edits metadata and “approves” content.*

*Administrative metadata created by DSpace (i.e., date accessioned, format extent & type.)*

*Handle (unique and persistent URL) is assigned by DSpace.*





# Content contributor: user interface



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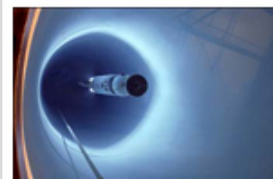
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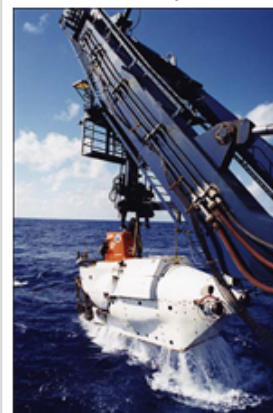
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J.-H.

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L.

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<input type="radio"/>	<a href="#">Tao-Cheng_et_al.doc</a>	78336 bytes	Author's final draft <a href="#">Change</a>	Microsoft Word ( <a href="#">known</a> ) <a href="#">Change</a>	<a href="#">Remove</a>
<input type="radio"/>	<a href="#">Tao-Cheng_Fig_2.jpg</a>	518430 bytes	Figure 2: CaMKII clustering is maintained in the presence of phosphatase inhibitors <a href="#">Change</a>	JPEG ( <a href="#">known</a> ) <a href="#">Change</a>	<a href="#">Remove</a>

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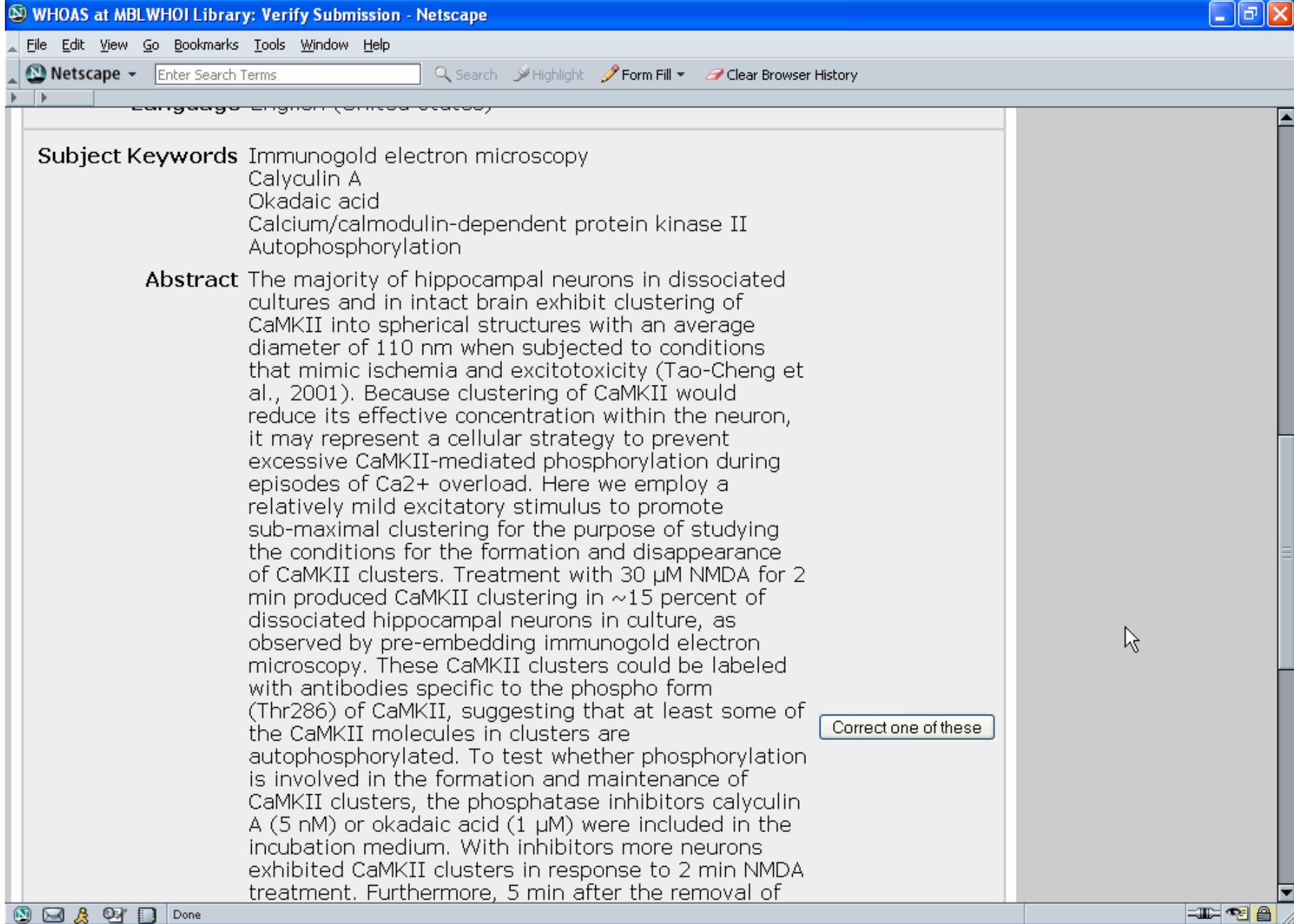
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**Authors** Tao-Cheng, J.-H.  
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Reese, T. S.  
Dosemeci, A.**Title** Inhibition of phosphatase activity facilitates the  
formation and maintenance of NMDA-induced  
calcium/calmodulin-dependent protein kinase ii  
clusters in hippocampal neurons

Correct one of these





CaMKII clusters, the phosphatase inhibitors calyculin A (5 nM) or okadaic acid (1  $\mu$ M) were included in the incubation medium. With inhibitors more neurons exhibited CaMKII clusters in response to 2 min NMDA treatment. Furthermore, 5 min after the removal of NMDA and  $\text{Ca}^{2+}$ , CaMKII clusters remained and could still be labeled with the phospho-specific antibody. In contrast, in the absence of phosphatase inhibitors, no clusters were detected 5 min after the removal of NMDA and  $\text{Ca}^{2+}$  from the medium. These results suggest that phosphatases type 1 and/or 2A regulate the formation and disappearance of CaMKII clusters.

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ID	Element	Qualifier	Scope Note		
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3	<input type="text" value="contributor"/>	<input type="text" value="author"/>		<input type="button" value="Update"/>	<input type="button" value="Delete..."/>
4	<input type="text" value="contributor"/>	<input type="text" value="editor"/>		<input type="button" value="Update"/>	<input type="button" value="Delete..."/>
5	<input type="text" value="contributor"/>	<input type="text" value="illustrator"/>		<input type="button" value="Update"/>	<input type="button" value="Delete..."/>
6	<input type="text" value="contributor"/>	<input type="text" value="other"/>		<input type="button" value="Update"/>	<input type="button" value="Delete..."/>
1	<input type="text" value="contributor"/>	<input type="text"/>	A person, organization, or service responsible for the content of the resource. Catch-all for unspecified	<input type="button" value="Update"/>	<input type="button" value="Delete..."/>
7	<input type="text" value="coverage"/>	<input type="text" value="spatial"/>	Spatial characteristics of content.	<input type="button" value="Update"/>	<input type="button" value="Delete..."/>
8	<input type="text" value="coverage"/>	<input type="text" value="temporal"/>	Temporal characteristics of content.	<input type="button" value="Update"/>	<input type="button" value="Delete..."/>
9	<input type="text" value="creator"/>	<input type="text"/>	Do not use; only for harvested metadata.	<input type="button" value="Update"/>	<input type="button" value="Delete..."/>
11	<input type="text" value="date"/>	<input type="text" value="accessioned"/>	Date DSpace takes possession of item.	<input type="button" value="Update"/>	<input type="button" value="Delete..."/>
			Date or date range item became		



12	date	available	Date or date range item became available to the public.	Update	Delete...
13	date	copyright	Date of copyright.	Update	Delete...
14	date	created	Date of creation or manufacture of intellectual content if different from date.issued.	Update	Delete...
15	date	issued	Date of publication or distribution.	Update	Delete...
16	date	submitted	Recommend for theses/dissertations.	Update	Delete...
10	date		Use qualified form if possible.	Update	Delete...
27	description	abstract	Abstract or summary.	Update	Delete...
28	description	provenance	The history of custody of the item since its creation, including any changes successive custodians made to	Update	Delete...
29	description	sponsorship	Information about sponsoring agencies, individuals, or contractual arrangements for the	Update	Delete...
30	description	statementofrespon	To preserve statement of responsibility from MARC records.	Update	Delete...
31	description	tableofcontents	A table of contents for a given item.	Update	Delete...
32	description	uri	Uniform Resource Identifier pointing to description of this item.	Update	Delete...
			Catch-all for any description not		





	name	value	description	update	delete
26	description		Catch-all for any description not defined by qualifiers.	Update	Delete...
34	format	extent	Size or duration.	Update	Delete...
35	format	medium	Physical medium.	Update	Delete...
36	format	mimetype	Registered MIME type identifiers.	Update	Delete...
33	format		Catch-all for any format information not defined by qualifiers.	Update	Delete...
18	identifier	citation	Human-readable, standard bibliographic citation of non-DSpace format of this item	Update	Delete...
19	identifier	govdoc	A government document number	Update	Delete...
20	identifier	isbn	International Standard Book Number	Update	Delete...
23	identifier	ismn	International Standard Music Number	Update	Delete...
21	identifier	issn	International Standard Serial Number	Update	Delete...
24	identifier	other	A known identifier type common to a local collection.	Update	Delete...
22	identifier	sici	Serial Item and Contribution Identifier	Update	Delete...
			Uniform Resource Identifier		

25	identifier	uri	Uniform Resource Identifier	Update	Delete...
17	identifier		Catch-all for unambiguous identifiers not defined by qualified form; use	Update	Delete...
38	language	iso	Current ISO standard for language of intellectual content, including country codes (e.g. "en_US").	Update	Delete...
37	language		Catch-all for non-ISO forms of the language of the item, accommodating harvested	Update	Delete...
39	publisher		Entity responsible for publication, distribution, or imprint.	Update	Delete...
44	relation	haspart	References physically or logically contained item.	Update	Delete...
46	relation	hasversion	References later version.	Update	Delete...
47	relation	isbasedon	References source.	Update	Delete...
41	relation	isformatof	References additional physical form.	Update	Delete...
42	relation	ispartof	References physically or logically containing item.	Update	Delete...
43	relation	ispartofseries	Series name and number within that series, if available.	Update	Delete...
48	relation	isreferencedby	Pointed to by referenced resource.	Update	Delete...
51	relation	isreplacedby	References succeeding item.	Update	Delete...

51	relation	isreplacedby	References succeeding item.	Update	Delete...
45	relation	isversionof	References earlier version.	Update	Delete...
50	relation	replaces	References preceeding item.	Update	Delete...
49	relation	requires	Referenced resource is required to support function, delivery, or coherence of item.	Update	Delete...
52	relation	uri	References Uniform Resource Identifier for related item.	Update	Delete...
40	relation		Catch-all for references to other related items.	Update	Delete...
54	rights	uri	References terms governing use and reproduction.	Update	Delete...
53	rights		Terms governing use and reproduction.	Update	Delete...
56	source	uri	Do not use; only for harvested metadata.	Update	Delete...
55	source		Do not use; only for harvested metadata.	Update	Delete...
58	subject	classification	Catch-all for value from local classification system; global classification systems will	Update	Delete...
59	subject	ddc	Dewey Decimal Classification Number	Update	Delete...
60	subject	lcc	Library of Congress Classification Number	Update	Delete...

58	<input type="text" value="subject"/>	<input type="text" value="classification"/>	Catch-all for value from local classification system; global classification systems will	<input type="button" value="Update"/>	<input type="button" value="Delete..."/>
59	<input type="text" value="subject"/>	<input type="text" value="ddc"/>	Dewey Decimal Classification Number	<input type="button" value="Update"/>	<input type="button" value="Delete..."/>
60	<input type="text" value="subject"/>	<input type="text" value="lcc"/>	Library of Congress Classification Number	<input type="button" value="Update"/>	<input type="button" value="Delete..."/>
61	<input type="text" value="subject"/>	<input type="text" value="lcsb"/>	Library of Congress Subject Headings	<input type="button" value="Update"/>	<input type="button" value="Delete..."/>
62	<input type="text" value="subject"/>	<input type="text" value="mesh"/>	MEDical Subject Headings	<input type="button" value="Update"/>	<input type="button" value="Delete..."/>
63	<input type="text" value="subject"/>	<input type="text" value="other"/>	Local controlled vocabulary; global vocabularies will receive specific qualifier.	<input type="button" value="Update"/>	<input type="button" value="Delete..."/>
57	<input type="text" value="subject"/>	<input type="text"/>	Uncontrolled index term.	<input type="button" value="Update"/>	<input type="button" value="Delete..."/>
65	<input type="text" value="title"/>	<input type="text" value="alternative"/>	Varying (or substitute) form of title proper appearing in item, e.g. abbreviation or translation	<input type="button" value="Update"/>	<input type="button" value="Delete..."/>
64	<input type="text" value="title"/>	<input type="text"/>	Title statement/title proper.	<input type="button" value="Update"/>	<input type="button" value="Delete..."/>
66	<input type="text" value="type"/>	<input type="text"/>	Nature or genre of content.	<input type="button" value="Update"/>	<input type="button" value="Delete..."/>

Note: Adding a new element to the DC Registry does not add a corresponding input field to the submit forms!





# Metadata: item record

## Edit Item

PLEASE NOTE: These changes are not validated in any way. You are responsible for entering the data in the correct format. If you are not sure what the format is, please do NOT make changes.

[More help...](#)

Item internal ID: 644

Handle: 1912/607

[Withdraw...](#)

Last modified: 27-Feb-2006 11:21:30

In Collections: Program in Molecular Physiology

[Delete \(Expunge\)...](#)

Item page: <https://darchive.mblwhoilibrary.org/handle/1912/607>

Item's  
Authorizations: [Edit...](#)

Element	Qualifier	Value	Language	
contributor	author	<input type="text" value="Tao-Cheng, J.-H."/>	<input type="text"/>	<a href="#">Remove</a>
contributor	author	<input type="text" value="Vinade, L."/>	<input type="text"/>	<a href="#">Remove</a>
contributor	author	<input type="text" value="Winters, C. A."/>	<input type="text"/>	<a href="#">Remove</a>
contributor	author	<input type="text" value="Reese, T. S."/>	<input type="text"/>	<a href="#">Remove</a>
contributor	author	<input type="text" value="Dosemeci, A."/>	<input type="text"/>	<a href="#">Remove</a>

date	accessioned	2006-02-27T16:21:30Z	<input type="text"/>	<input type="button" value="Remove"/>
date	available	2006-02-27T16:21:30Z	<input type="text"/>	<input type="button" value="Remove"/>
date	issued	2004-10-04	<input type="text"/>	<input type="button" value="Remove"/>
identifier	uri	<a href="http://hdl.handle.net/1912/607">http://hdl.handle.net/1912/607</a>	<input type="text"/>	<input type="button" value="Remove"/>
description		Author Posting. © Elsevier B. V., 2005. This is the author's version of the work. It is posted here by permission of Elsevier B. V. for personal 	<input type="text" value="en"/>	<input type="button" value="Remove"/>
description	abstract	The majority of hippocampal neurons in dissociated cultures and in intact brain exhibit clustering of CaMKII into spherical structures with an average diameter of 110 nm when subjected to conditions 	<input type="text" value="en"/>	<input type="button" value="Remove"/>
description	provenance	Submitted by Ann Devenish (adevenish@whoi.edu) on 2006-02-27T16:19:44Z No. of bitstreams: 3 Tao-Cheng_Fig2.jpg: 518430 bytes, checksum: 	<input type="text" value="en"/>	<input type="button" value="Remove"/>
description	provenance	Approved for entry into archive by Ann Devenish(adevenish@whoi.edu) on 2006-02-27T16:21:30Z (GMT) No. of bitstreams: 3 Tao-Cheng_Fig2.jpg: 518430 bytes, checksum: 	<input type="text" value="en"/>	<input type="button" value="Remove"/>
		Made available in DSpace on 2006-02-27T16:21:30Z 		

description	provenance	Made available in DSpace on 2006-02-27T16:21:30Z (GMT). No. of bitstreams: 3 Tao-Cheng_Fig_2.jpg: 518430 bytes, checksum: a58e1660285c067c73eedb0dbb37b2c9 (MD5)	en	Remove
description	sponsorship	Supported by NINDS intramural funds and National Science Foundation grant 9817317 to A. D.	en	Remove
format	extent	518430 bytes		Remove
format	extent	233033 bytes		Remove
format	extent	78336 bytes		Remove
format	mimetype	image/jpeg		Remove
format	mimetype	image/jpeg		Remove
format	mimetype	application/msword		Remove
language	iso	en_US		Remove



language	iso	en_US	en	Remove
relation	uri	http://dx.doi.org/10.1016/j.neuroscience.2004.10.008		Remove
subject		Immunogold electron microscopy	en	Remove
subject		Calyculin A	en	Remove
subject		Okadaic acid	en	Remove
subject		Calcium/calmodulin-dependent protein kinase II	en	Remove
subject		Autophosphorylation	en	Remove
title		Inhibition of phosphatase activity facilitates the formation and maintenance of NMDA-induced calcium/calmodulin-dependent protein kinase ii clusters in hippocampal neurons	en	Remove

type

Preprint

en

Remove

contributor.advisor

Add

## Bitstreams

**Note: Changes to the bitstreams will not be automatically reflected in the Dublin Core metadata above (e.g. format, format.mimetype). You will need to update this by hand.**

Also note that if the "user format description" field isn't empty, the format will always be set to "Unknown", so clear the user format description before changing the format field.

Primary Bitstream	Name	Source	Description	Format	User Format Description
<input type="radio"/>	Tao-Cheng__Fig_2.jpg	Tao-Cheng__Fig_2.jpg	Figure 2: CaMKII clusteri	11 (JPEG)	
<input type="radio"/>	Tao-Cheng__Fig_1.jpg	Tao-Cheng__Fig_1.jpg	Figure 1: CaMKII clusters	11 (JPEG)	
<input type="radio"/>	Tao-Cheng_et_al.doc	Tao-Cheng_et_al.doc	Author's final draft	7 (Microsoft Word)	
	license.txt	Written by org.dspace.c		2 (License)	



# DOI deposit

*DOI registration agency is CrossRef*

- *Decision to investigate DOI deposit predated selection of DSpace as the IR platform.*
- *Membership, October 2004; first IR member.*
- *Active role in the organization to help encourage a role for and services to IRs.*
  - *Representation on an ad hoc IR committee that is reviewing potential impacts and obligations of IRs as members.*



# DOI deposit

## *Objectives of DOI deposit:*

*Help expose content to its widest potential audience.*

- *DOI added to 024 ~~≠~~a in MARC record in our local system, Mariner.*
- *856 field added.*
- *holding record added.*
- *tbd: update OCLC records?*

*Broad acceptance of DOI in the STM community.*

*Facilitates linkage to our objects by STM publishers.*



# DOI deposit

*Initial deposit: 40 WHOI Technical Reports (2001-2004) and one digitized book (publisher out of business, copyright “orphaned”), July 2004.*

- *Deposit of DOI via xml file upload for each metadata record.*
  - *Authors, title, publication date, publisher, place of publication, DOI (handle prefix & item number).*

*Ongoing, DOIs deposited for:*

- *WHOI Technical Reports and Technical Memoranda.*
- *WHOI and MIT/WHOI theses.*
- *Digital books “owned” by WH science community members, out of copyright, and/or where we have been granted permission.*
- *256 DOIs as of 04/05/06.*



# DOI deposit

*DOIs are not deposited for:*

*articles ~ preprints (author's draft)*

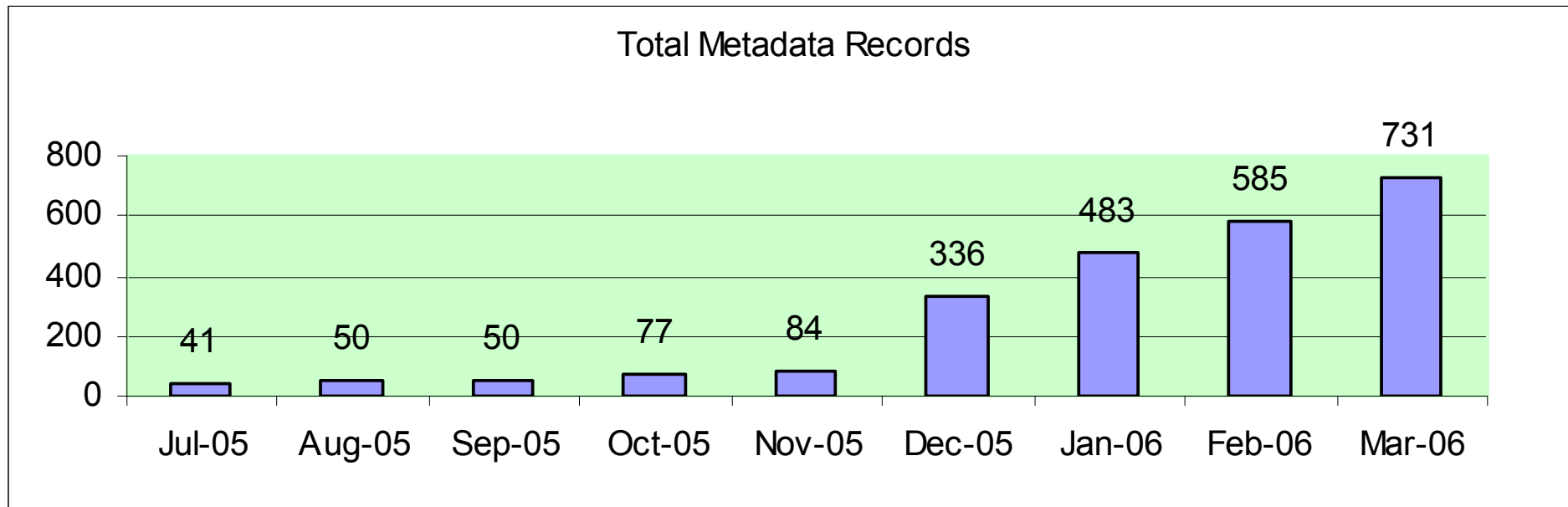
*articles ~ published version*

*Under investigation:*

*DOI deposits for 6 million records in uBio, Universal Biological Indexer and Organizer (taxonomic name server) database.*



# Content growth





# Content analysis

*Snapshot [759 metadata records ~ 04/05/06]:*

*Woods Hole content*

*WHOI Technical Reports, Working Papers, and Theses:*  
235

*Articles (published version):* 183

*Articles ("preprint"):* 107

*Books:* 19

*Presentations/Other:* 2

*IAMSLIC content*

*Conference proceedings:* 159

*Newsletters:* 48

*Other:* 6





# Content recruitment

## *WHOI Technical Reports*

*3500+ published since 1941*

*initial focus: 1990-*

## *WHOI and MIT/WHOI Joint Program theses*

*approximately 1150 published since 1968*

*initial focus: 1990-*

*“Author hereby grants to MIT and WHOI permission to reproduce ...”*

## *“On demand”*

- Belukha Whale*
- Indian Ocean Bubble*
- Papers on Physical Oceanography and Meteorology*



# Content recruitment

*Since January 2004, Woods Hole authors have published:*

- *more than 1350\* articles,*
- *in approximately 370 science, technology, and medical journals.*

*\*85% by MBL and/or WHOI authors, many in publications that permit self-archiving in IRs of pre-print/post-print (e.g., AGU, Blackwell, Elsevier, Springer).*



# Content recruitment

*Push vs. Pull*

*Push (voluntary contributions):*

*<3% of total WH content*

*Report on the NIH Public Access Policy, Jan. 2006*

*<4% of the total number of articles estimated to be eligible  
have been added to PMC*

*Pull (solicit and/or harvest):*

*Solicit: 28% ↑ response rate; 35% of WH total  
articles*

*Harvest: 65% of WH total articles*



# Content recruitment

## *Authors' Rights and Publishing*

*“create a selection of resources that can be used by BLC members in their efforts to promote healthy scholarly communication” BLC Task Force on Scholarly Communication*

<http://www.blc.org/authorsrights.html>

## *BLC Community of Interest (COI)*

*“a forum for exchanging ideas, discuss issues, or solve problems”*

[blcir-l@blc.umb.edu](mailto:blcir-l@blc.umb.edu)



# Useful URLs

*CrossRef: <http://www.crossref.org/index.html>*

*DOI Handbook: <http://www.doi.org/hb.html>*

*DSpace: <http://dspace.org/index.html>*

*Eprints Self-Archiving Policy by Journal:  
<http://romeo.eprints.org/>*

*OAIster: <http://oaister.umd.umich.edu/o/oaister/>*

*WHOAS: <https://darchive.mblwhoilibrary.org/index.jsp>*



# Questions?

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